查询STK1040供应商

D.P.P.
Darlington
Power Pack

thick film hyb[redacted]

# OUTPUT STAGE OF AF POWER AMP.

## Features

General output stage of power amplifier has a difficult and complex problem about heat sink designing and its setting. Sanyo's D.P.P. intends to decrease electronic parts and rationalize a manufacturing process by designing IC of only output stage of power amplifier.

- IMST system.
- Output stage for AF high power amplifier.
- Dual power supply.
- Darlington type pure / quasi-complementary circuit.
- These same pin assignment and pin interval lead to standardize a printed board.
- Metal substrate use IMST© makes good thermal stability.
- Able to design freely previous section of power amplifier. This leads tone control designing.

| Type Number | | Case Outline | Maximum Ratings at Ta=25°C | | | | | | Operation Characteristics at Ta=25°C | | | | Equivalent Circuit |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Maximum Supply Voltage VCCmax. | Junction Temperature Tj | Storage Temperature Tstg | Thermal Resistance, θ | Collector Current, ICmax. | Allowable Load Shorting Time, ts | Supply Voltage at Rated Power, Output RL=8Ω | Output Power, Po f=20 to 20kHz | Total Harmonic Distortion, THD f=20 to 20kHz | Quiescent Current, Icco | |
| Pure-Complementary Circuit | Quasi-Complementary Circuit | | V | °C | °C | °C/W | A | sec | V | W | % | mA | |
| 1-Channel Darlington Power Pack (Without emitter resistance) | | | | | | | | | | | | | |
| | STK 0025 | 4002 | ±35 | 150 | -30 to +105 | 2.6 | 3 | 2 | ±24.4 | 23 min. | 0.05 max. | 40 typ, 80 max. | |
| | STK 0029 | 4002 | ±37 | 150 | -30 to +105 | 2.4 | 5 | 2 | ±25.0 | 25 min. | 0.1 max. | 40 typ, 80 max. | |
| STK 0030 | | 4002 | ±40 | 150 | -30 to +105 | 2.4 | 4 | 2 | ±28.5 | 30 min. | 0.1 max. | 40 typ, 80 max. | |
| | STK 0039 | 4004 | ±45 | 150 | -30 to +105 | 2.0 | 5 | 2 | ±31 | 35 min. | 0.1 max. | 40 typ, 80 max. | |
| STK 0040 | | 4002 | ±48 | 150 | -30 to +105 | 2.0 | 5 | 2 | ±33 | 40 min. | 0.1 max. | 40 typ, 80 max. | |
| | STK 0049 | 4004 | ±50 | 150 | -30 to +105 | 1.8 | 5 | 2 | ±35 | 45 min. | 0.1 max. | 40 typ, 80 max. | |
| STK 0050 | | 4004 | ±53 | 150 | -30 to +105 | 1.8 | 5 | 2 | ±36 | 50 min. | 0.1 max. | 40 typ, 80 max. | |
| | STK 0059 | 4004 | ±52.5 | 150 | -30 to +105 | 1.6 | 7 | — | ±38 | 55 min. | 0.1 max. | 40 typ, 80 max. | |
| STK 0060 | | 4006 | ±55 | 150 | -30 to +105 | 1.4 | 7 | — | ±40 | 60 min. | 0.1 max. | 40 typ, 80 max. | |
| STK 0070 | | 4006 | ±55 | 150 | -30 to +105 | 1.4 | 7 | — | ±43 | 70 min. | 0.1 max. | 40 typ, 80 max. | |
| STK 0080 | | 4006 | ±65 | 150 | -30 to +105 | 1.3 | 10 | — | ±46 | 80 min. | 0.1 max. | 40 typ, 80 max. | |
| | STK 0105 | 4007 | ±75 | 150 | -30 to +105 | 1.0 | 10 | — | ±50 | 100 min. | 0.1 max. | 40 typ, 80 max. | |
| STK 0040II | | 4002 | ±48 | 150 | -30 to +105 | 1.8 | 5 | 1 | ±36 | 40 min. | 0.01 max. | 40 typ, 70 max. | |
| STK 0050II | | 4004 | ±53 | 150 | -30 to +105 | 1.6 | 6 | 1 | ±39 | 50 min. | 0.01 max. | 40 typ, 70 max. | |
| STK 0060II | | 4006 | ±55 | 150 | -30 to +105 | 1.3 | 8 | 1 | ±41 | 60 min. | 0.01 max. | 40 typ, 70 max. | |
| STK 0070II | | 4006 | ±60 | 150 | -30 to +105 | 1.3 | 10 | 1 | ±45 | 70 min. | 0.01 max. | 40 typ, 70 max. | |
| STK 0080II | | 4006 | ±65 | 150 | -30 to +105 | 1.2 | 12 | 1 | ±47 | 80 min. | 0.01 max. | 40 typ, 70 max. | |
| 1-Channel Darlington Power Pack (With emitter resistance) | | | | | | | | | | | | | |
| STK 1030 | | 4004 | ±40 | 150 | -30 to +105 | 2.4 | 5 | 2 | ±28.5 | 30 min. | 0.02 max. | 40 typ, 80 max. | |
| | STK 1035 | 4004 | ±40 | 150 | -30 to +105 | 2.4 | 5 | 2 | ±28.5 | 30 min. | 0.02 max. | 40 typ, 80 max. | |
| | STK 1039 | 4004 | ±46.1 | 150 | -30 to +105 | 1.85 | 6 | 2 | ±30 | 35 min. | 0.02 max. | 40 typ, 80 max. | |
| STK 1040 | | 4004 | ±48 | 150 | -30 to +105 | 1.8 | 7 | 2 | ±33 | 40 min. | 0.02 max. | 40 typ, 80 max. | |
| | STK 1045 | 4004 | ±48 | 150 | -30 to +105 | 1.8 | 7 | 2 | ±33 | 40 min. | 0.02 max. | 40 typ, 80 max. | |
| | STK 1049 | 4004 | ±50 | 150 | -30 to +105 | 1.8 | 7 | 2 | ±34 | 45 min. | 0.02 max. | 40 typ, 80 max. | |
| STK 1050 | | 4004 | ±53 | 150 | -30 to +105 | 1.8 | 7 | 2 | ±36 | 50 min. | 0.02 max. | 40 typ, 80 max. | |
| | STK 1059 | 4004 | ±53 | 150 | -30 to +105 | 1.6 | 7 | — | ±38 | 55 min. | 0.02 max. | 40 typ, 80 max. | |
| STK 1060 | | 4004 | ±56 | 150 | -30 to +105 | 1.6 | 10 | — | ±40 | 60 min. | 0.02 max. | 40 typ, 80 max. | |
| STK 1050II | | 4020 | ±55 | 150 | -30 to +105 | 1.6 | 6 | 1 | ±38 | 50 min. | 0.01 max. | 40 typ, 70 max. | |
| STK 1060II | | 4020 | ±56 | 150 | -30 to +105 | 1.3 | 8 | 1 | ±40 | 60 min. | 0.01 max. | 40 typ, 70 max. | |
| STK 1070II | | 4020 | ±63 | 150 | -30 to +105 | 1.3 | 10 | 1 | ±43 | 70 min. | 0.01 max. | 40 typ, 70 max. | |
| STK 1080II | | 4020 | ±65 | 150 | -30 to +105 | 1.2 | 10 | 1 | ±45 | 80 min. | 0.01 max. | 40 typ, 70 max. | |
| 2-Channel Darlington Power Pack (Without emitter resistance) | | | | | | | | | | | | | |
| | STK 2025 | 4015 | ±40 | 150 | -30 to +105 | 2.6 | 3 | 2 | ±24 | 20x2 min. | 0.02 max. | 40 typ, 80 max. | |
| | STK 2029 | 4015 | ±43 | 150 | -30 to +105 | 2.2 | 4 | 2 | ±25.5 | 25x2 min. | 0.02 max. | 40 typ, 80 max. | |
| 2-Channel Darlington Power Pack (With emitter resistance) | | | | | | | | | | | | | |
| | STK 2135 | 4015 | ±48 | 150 | -30 to +105 | 2.1 | 4 | 2 | ±28.5 | 30x2 min. | 0.02 max. | 40 typ, 80 max. | |
| | STK 2139 | 4015 | ±50 | 150 | -30 to +105 | 1.85 | 5 | 2 | ±30 | 35x2 min. | 0.02 max. | 40 typ, 80 max. | |
| | STK 2145 | 4015 | ±54 | 150 | -30 to +105 | 1.8 | 7 | 2 | ±32 | 40x2 min. | 0.02 max. | 40 typ, 80 max. | |
| STK 2230 | | 4015 | ±48 | 150 | -30 to +105 | 2.1 | 4 | 2 | ±30 | 30x2 min. | 0.01 max. | 35 typ, 80 max. | |
| STK 2240 | | 4015 | ±54 | 150 | -30 to +105 | 1.8 | 5 | 2 | ±33.5 | 40x2 min. | 0.01 max. | 35 typ, 80 max. | |
| STK 2250 | | 4015 | ±59 | 150 | -30 to +105 | 1.8 | 5 | 2 | ±37 | 50x2 min. | 0.01 max. | 35 typ, 80 max. | |
| 1-Channel No Switching Darlington Power Pack | | | | | | | | | | | | | |
| STK 8250 | | 4006 | ±56 | 150 | -30 to +105 | 1.8 | 5 | 2 | ±38 | 50 min. | 0.01 max. | 80 max. | |
| STK 8260 | | 4006 | ±59 | 150 | -30 to +105 | 1.4 | 7 | 2 | ±42 | 60 min. | 0.01 max. | 80 max. | |
| STK 8270 | | 4006 | ±60 | 150 | -30 to +105 | 1.4 | 7 | 2 | ±44 | 70 min. | 0.01 max. | 80 max. | |
| STK 8280 | | 4006 | ±65 | 150 | -30 to +105 | 1.4 | 7 | 2 | ±47 | 80 min. | 0.01 max. | 80 max. | |
| | | ) | ±55 | 150 | -30 to +105 | 1.6 | 6 | 1 | ±38 | 50 min. | 0.005 max. | 70 max. | |
| | | ) | ±56 | 150 | -30 to +105 | 1.3 | 8 | 1 | ±40 | 60 min. | 0.005 max. | 40 typ, 70 max. | |
| | | ) | ±63 | 150 | -30 to +105 | 1.3 | 10 | 1 | ±44 | 70 min. | 0.005 max. | 40 typ, 70 max. | |
| | | ) | ±65 | 150 | -30 to +105 | 1.2 | 12 | 1 | ±45 | 80 min. | 0.01 max. | 70 max. | |

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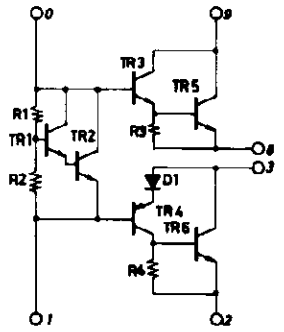
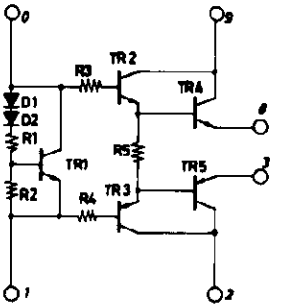
## EQUIVALENT CIRCUIT



STK 0025, 0029, 0039, 0049, 0059



STK 0030, 0040, 0050, 0060, 0070
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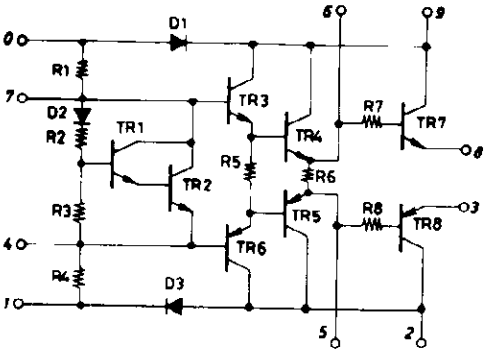
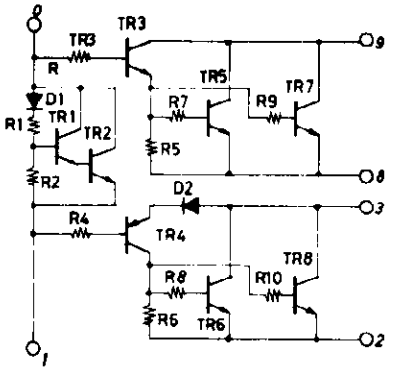


STK 0040II, 0050II, 0060II, 0070II, 0080II



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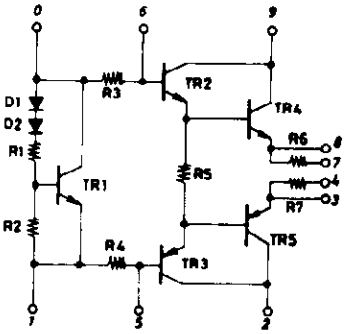

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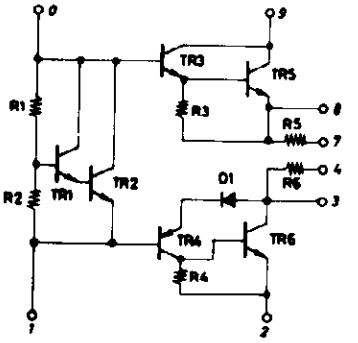

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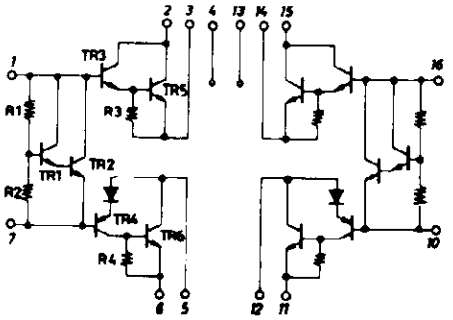

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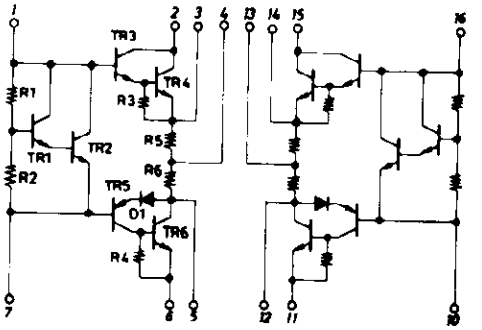

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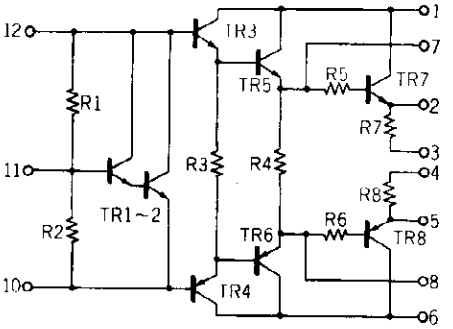

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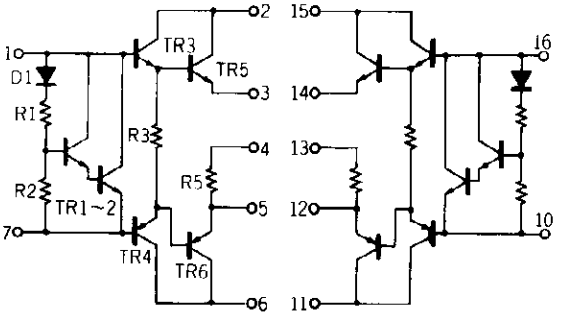

STK 2230, 2240, 2250

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